## SAFETY DATA SHEET



**TEKNOLUX AQUA 1728-53 - RAL 9010** 

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : TEKNOLUX AQUA 1728-53 - RAL 9010

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

**National contact** 

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

**National advisory body/Poison Centre** 

Telephone number : In an emergency, call 112

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317 Carc. 1B, H350

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms





Signal word : Danger

**Hazard statements** : H317 - May cause an allergic skin reaction.

H350 - May cause cancer.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing, eye protection, face protection,

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or hearing protection.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

**Response**: P308 + P313 - IF exposed or concerned: Get medical advice or attention.

Storage : Not applicable.

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## **SECTION 2: Hazards identification**

#### **Disposal**

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### **Hazardous ingredients**

: Contains: ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate; Benzophenon; 2,2-bis (acryloyloxymethyl)butyl acrylate and 2-methyl-2H-isothiazol-3-one

#### Supplemental label elements

: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Restricted to professional users.

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a

Other hazards which do not result in classification : None known.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
ethyl phenyl (2,4,6-trimethylbenzoyl) phosphinate	REACH #: 01-2119987994-10 EC: 282-810-6 CAS: 84434-11-7	≤3	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
Benzophenon	REACH #: 01-2119899704-20 EC: 204-337-6 CAS: 119-61-9 Index: 606-153-00-5	≤3	Carc. 1B, H350 STOT RE 2, H373 Aquatic Chronic 3, H412	-	[1]
2,2-bis(acryloyloxymethyl) butyl acrylate	REACH #: 01-2119489896-11 EC: 239-701-3 CAS: 15625-89-5 Index: 607-111-00-9	≤1.9	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Triethylamine	REACH #: 01-2119475467-26 EC: 204-469-4 CAS: 121-44-8 Index: 612-004-00-5	<1	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 460 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l STOT SE 3, H335: C ≥ 1%	[1] [2]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0	<1	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315	ATE [Oral] = 1200 mg/kg ATE [Inhalation	[1] [2]

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#### SECTION 3: Composition/information on ingredients CAS: 111-76-2 Eye Irrit. 2, H319 (vapours)] = 3 mg/lIndex: 603-014-00-0 ≤0.3 propylidynetrimethanol REACH #: Repr. 2, H361fd [1] 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6 Acrylic acid REACH #: ATE [Oral] = 500 ≤0.3 Flam. Liq. 3, H226 [1] [2] Acute Tox. 4, H302 01-2119452449-31 mg/kg ATE [Dermal] = EC: 201-177-9 Acute Tox. 4, H312 CAS: 79-10-7 Acute Tox. 4, H332 1100 mg/kg Skin Corr. 1A, H314 ATE [Inhalation Eye Dam. 1, H318 (vapours)] = 11 mg/ **STOT SE 3, H335** Aquatic Acute 1, H400 STOT SE 3, H335: Aquatic Chronic 2, C ≥ 1% H411 M [Acute] = 1 < 0.01 Acute Tox. 3, H301 ATE [Oral] = 100 2-methyl-2H-isothiazol-EC: 220-239-6 [1] CAS: 2682-20-4 Acute Tox. 3, H311 3-one mg/kg Acute Tox. 2, H330 ATE [Dermal] = Skin Corr. 1B, H314 300 mg/kg Eye Dam. 1, H318 ATE [Inhalation Skin Sens. 1A, H317 (dusts and mists)] Aquatic Acute 1, H400 = 0.11 mg/lSkin Sens. 1, H317: Aquatic Chronic 1, H410 C ≥ 0.0015% **EUH071** M [Acute] = 10 M [Chronic] = 1reaction mass of: 5-chloro-CAS: 55965-84-9 ≤0.0027 Acute Tox. 3, H301 ATE [Oral] = 53 mg/ [1] 2-methyl-4-isothiazolin-Index: 613-167-00-5 Acute Tox. 2, H310 3-one [EC no. 247-500-7] Acute Tox. 2, H330 ATE [Dermal] = 50 and 2-methyl-2H-isothiazol-Skin Corr. 1C, H314 mg/kg 3-one [EC no. 220-239-6] ATE [Inhalation Eye Dam. 1, H318 (3:1)Skin Sens. 1A, H317 (vapours)] = 0.5Aquatic Acute 1, H400 ma/l Aquatic Chronic 1, Skin Corr. 1C, H410 H314: C ≥ 0.6% **EUH071** Eve Dam. 1, H318: C ≥ 0.6% Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1, H317:

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

See Section 16 for the full text of the H statements declared

above.

C ≥ 0.0015% M [Acute] = 100 M [Chronic] = 100

#### **Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

Occupational exposure limits, if available, are listed in Section 8.

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#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**Eve contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband.

Skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes.

> Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before

reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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## SECTION 5: Firefighting measures

#### **Hazardous combustion** products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

phosphorus oxides metal oxide/oxides

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### 6.3 Methods and material for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 7.1 Precautions for safe handling

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## **SECTION 7: Handling and storage**

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
Triethylamine	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 2 ppm 8 hours.
	TWA: 8.4 mg/m³ 8 hours.
	PEAK: 3 ppm, 4 times per shift, 15 minutes.
	PEAK: 12.6 mg/m³, 4 times per shift, 15 minutes.
2-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
	TWA: 98 mg/m³ 8 hours.
	PEAK: 40 ppm, 4 times per shift, 30 minutes.
	PEAK: 200 mg/m³, 4 times per shift, 30 minutes.
Acrylic acid	Regulation on Limit Values - MAC (Austria, 4/2021).
	CEIL: 59 mg/m³
	CEIL: 20 ppm
	TWA: 29 mg/m³ 8 hours.
	TWA: 10 ppm 8 hours.
2-methyl-2H-isothiazol-3-one	Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro-
	2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-di-
	hydroisothiazol-3-one (mixture in the ratio 3:1)] Skin
	sensitiser.
	TWA: 0.05 mg/m³ 8 hours.
reaction mass of: 5-chloro-2-methyl-	Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro-
4-isothiazolin-3-one [EC no. 247-500-7] and	2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-di-
2-methyl-2H-isothiazol-3-one [EC no.	hydroisothiazol-3-one (mixture in the ratio 3:1)] Skin
220-239-6] (3:1)	sensitiser.

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Triethylamine

TWA: 0.05 mg/m<sup>3</sup> 8 hours.

Limit values (Belgium, 5/2021). Absorbed through skin.

TWA: 0.5 ppm 8 hours. TWA: 2.07 mg/m<sup>3</sup> 8 hours. STEL: 1 ppm 15 minutes. STEL: 4.14 mg/m<sup>3</sup> 15 minutes.

Limit values (Belgium, 5/2021). Absorbed through skin. 2-Butoxyethanol

TWA: 20 ppm 8 hours. TWA: 98 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m<sup>3</sup> 15 minutes.

Limit values (Belgium, 5/2021). Absorbed through skin. Acrylic acid

> TWA: 2 ppm 8 hours. TWA: 6 mg/m<sup>3</sup> 8 hours. STEL: 59 mg/m<sup>3</sup> 1 minutes. STEL: 20 ppm 1 minutes.

Ministry of Labour and Social Policy and the Ministry of Triethylamine Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed

through skin.

Limit value 15 min: 12.6 mg/m<sup>3</sup> 15 minutes. Limit value 8 hours: 8.4 mg/m<sup>3</sup> 8 hours. Limit value 15 min: 3 ppm 15 minutes. Limit value 8 hours: 2 ppm 8 hours.

2-Butoxyethanol Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed

through skin.

Limit value 8 hours: 98 mg/m<sup>3</sup> 8 hours. Limit value 15 min: 246 mg/m³ 15 minutes. Limit value 15 min: 50 ppm 15 minutes. Limit value 8 hours: 20 ppm 8 hours.

propylidynetrimethanol Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 6/2021).

Limit value 8 hours: 50 mg/m<sup>3</sup> 8 hours.

Ministry of Labour and Social Policy and the Ministry of Acrylic acid Health - Ordinance No 13/2003. (Bulgaria, 6/2021).

> Limit value 8 hours: 29 mg/m<sup>3</sup> 8 hours. Limit value 15 min: 20 ppm 1 minutes. Limit value 15 min: 59 mg/m<sup>3</sup> 1 minutes. Limit value 8 hours: 10 ppm 8 hours.

Triethylamine Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.

STELV: 12.6 mg/m<sup>3</sup> 15 minutes. STELV: 3 ppm 15 minutes.

ELV: 8.4 mg/m<sup>3</sup> 8 hours. ELV: 2 ppm 8 hours.

Ministry of Economy, Labour and Entrepreneurship ELV/ 2-Butoxyethanol

STELV (Croatia, 1/2021). Absorbed through skin.

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STELV: 246 mg/m<sup>3</sup> 15 minutes. STELV: 50 ppm 15 minutes. ELV: 98 mg/m<sup>3</sup> 8 hours. ELV: 20 ppm 8 hours.

Acrylic acid Ministry of Economy, Labour and Entrepreneurship ELV/

STELV (Croatia, 1/2021). ELV: 29 mg/m<sup>3</sup> 8 hours. ELV: 10 ppm 8 hours.

STELV: 59 mg/m<sup>3</sup> 1 minutes.

STELV: 20 ppm 1 minutes.

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Department of labour inspection (Cyprus, 7/2021). Absorbed Triethylamine through skin. STEL: 3 ppm 15 minutes. STEL: 12.6 mg/m<sup>3</sup> 15 minutes. TWA: 2 ppm 8 hours. TWA: 8.4 mg/m<sup>3</sup> 8 hours. Department of labour inspection (Cyprus, 7/2021). Absorbed 2-Butoxyethanol through skin. STEL: 50 ppm 15 minutes. STEL: 246 mg/m<sup>3</sup> 15 minutes. TWA: 20 ppm 8 hours. TWA: 98 mg/m<sup>3</sup> 8 hours. Department of labour inspection (Cyprus, 7/2021). Acrylic acid STEL: 20 ppm 1 minutes. STEL: 59 mg/m<sup>3</sup> 1 minutes. TWA: 10 ppm 8 hours. TWA: 29 mg/m<sup>3</sup> 8 hours. Government regulation of Czech Republic PEL/NPK-P (Czech Triethylamine Republic, 10/2022). Absorbed through skin. TWA: 8 mg/m<sup>3</sup> 8 hours. TWA: 1.904 ppm 8 hours. STEL: 12 mg/m<sup>3</sup> 15 minutes. STEL: 2.856 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech 2-Butoxyethanol Republic, 10/2022). Absorbed through skin. TWA: 100 mg/m<sup>3</sup> 8 hours. TWA: 20.4 ppm 8 hours. STEL: 200 mg/m³ 15 minutes. STEL: 40.8 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Acrylic acid Republic, 10/2022). TWA: 29 mg/m<sup>3</sup> 8 hours. STEL: 59 mg/m<sup>3</sup> 1 minutes. TWA: 9.686 ppm 8 hours. STEL: 19.706 ppm 1 minutes. Working Environment Authority (Denmark, 6/2022). Absorbed Triethylamine through skin. TWA: 1 ppm 8 hours. TWA: 4.1 mg/m<sup>3</sup> 8 hours. STEL: 12.6 mg/m<sup>3</sup> 15 minutes. STEL: 3 ppm 15 minutes. 2-Butoxyethanol Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m<sup>3</sup> 8 hours. STEL: 246 mg/m<sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes. Acrylic acid Working Environment Authority (Denmark, 6/2022). Absorbed through skin. STEL: 59 mg/m<sup>3</sup> 1 minutes. STEL: 20 ppm 1 minutes. TWA: 2 ppm 8 hours. TWA: 5.9 mg/m<sup>3</sup> 8 hours. Triethylamine Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 8.4 mg/m<sup>3</sup> 8 hours. TWA: 2 ppm 8 hours. STEL: 12.6 mg/m³ 15 minutes. STEL: 3 ppm 15 minutes. 2-Butoxyethanol Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 98 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.

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Triethylamine

STEL: 246 mg/m³ 15 minutes.
STEL: 50 ppm 15 minutes.

Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022).

TWA: 29 mg/m³ 8 hours.

TWA: 10 ppm 8 hours.

STEL: 20 ppm 1 minutes.

EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values

TWA: 2 ppm 8 hours. TWA: 8.4 mg/m³ 8 hours. STEL: 3 ppm 15 minutes. STEL: 12.6 mg/m³ 15 minutes.

STEL: 59 mg/m<sup>3</sup> 1 minutes.

2-Butoxyethanol EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list

of indicative occupational exposure limit values

TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes.

Acrylic acid EU OEL (Europe, 1/2022). Notes: list of indicative

occupational exposure limit values

STEL: 20 ppm 15 minutes. STEL: 59 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. TWA: 29 mg/m³ 8 hours.

Triethylamine Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021). Absorbed through skin.

STEL: 1 ppm 15 minutes. STEL: 4.2 mg/m³ 15 minutes.

2-Butoxyethanol Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021). Absorbed through skin.

TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 250 mg/m³ 15 minutes.

Acrylic acid Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021). TWA: 2 ppm 8 hours. TWA: 6 mg/m³ 8 hours.

CEIL: 15 ppm CEIL: 45 mg/m³

Triethylamine Ministry of Labor (France, 10/2022). Absorbed through skin.

Notes: Binding regulatory limit values (article R. 4412-149 of

Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL: 3 ppm 15 minutes.

STEL: 12.6 mg/m³ 15 minutes. TWA: 4.2 mg/m³ 8 hours. TWA: 1 ppm 8 hours.

2-Butoxyethanol Ministry of Labor (France, 10/2022). Absorbed through skin.

Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA: 10 ppm 8 hours. TWA: 49 mg/m³ 8 hours. STEL: 246 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.

Acrylic acid Ministry of Labor (France, 10/2022). Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)

TWA: 10 ppm 8 hours. TWA: 29 mg/m³ 8 hours. STEL: 20 ppm 1 minutes. STEL: 59 mg/m³ 1 minutes.

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DFG MAC-values list (Germany, 7/2022). Skin sensitiser. 2,2-bis(acryloyloxymethyl)butyl acrylate Triethylamine TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 4.2 mg/m<sup>3</sup> 8 hours. PEAK: 8.4 mg/m<sup>3</sup> 15 minutes. TWA: 1 ppm 8 hours. PEAK: 2 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 1 ml/m3 8 hours. PEAK: 2 ppm, 4 times per shift, 15 minutes. TWA: 4.2 mg/m<sup>3</sup> 8 hours. PEAK: 8.4 mg/m³, 4 times per shift, 15 minutes. PEAK: 2 ml/m³, 4 times per shift, 15 minutes. 2-Butoxyethanol TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 49 mg/m<sup>3</sup> 8 hours. PEAK: 98 mg/m<sup>3</sup> 15 minutes. TWA: 10 ppm 8 hours. PEAK: 20 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin. TWA: 10 ppm 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 49 mg/m<sup>3</sup> 8 hours. PEAK: 98 mg/m³, 4 times per shift, 15 minutes. Acrylic acid DFG MAC-values list (Germany, 7/2022). TWA: 30 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. PEAK: 10 ppm, 4 times per shift, 15 minutes. PEAK: 30 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 30 ma/m<sup>3</sup> 8 hours. PEAK: 30 mg/m3 15 minutes. TWA: 10 ppm 8 hours. PEAK: 10 ppm 15 minutes. 2-methyl-2H-isothiazol-3-one DFG MAC-values list (Germany, 7/2022). Skin sensitiser. Presidential Decree 307/1986: Occupational exposure limit Triethylamine values (Greece, 9/2021). Absorbed through skin. TWA: 10 ppm 8 hours. TWA: 40 mg/m<sup>3</sup> 8 hours. STEL: 15 ppm 15 minutes. STEL: 60 mg/m<sup>3</sup> 15 minutes. Presidential Decree 307/1986: Occupational exposure limit 2-Butoxyethanol values (Greece, 9/2021). Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 120 mg/m<sup>3</sup> 8 hours. Acrylic acid Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 10 ppm 8 hours. TWA: 29 mg/m<sup>3</sup> 8 hours. STEL: 20 ppm 1 minutes. STEL: 59 mg/m<sup>3</sup> 1 minutes. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed Triethylamine through skin. Skin sensitiser. Inhalation sensitiser. TWA: 8.4 mg/m<sup>3</sup> 8 hours. PEAK: 12.6 mg/m3 15 minutes. PEAK: 3 ppm 15 minutes. TWA: 2 ppm 8 hours. 2-Butoxyethanol 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 98 mg/m<sup>3</sup> 8 hours. PEAK: 246 mg/m<sup>3</sup> 15 minutes. PEAK: 50 ppm 15 minutes. TWA: 20 ppm 8 hours. Acrylic acid 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). TWA: 29 mg/m<sup>3</sup> 8 hours. 10/30

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PEAK: 59 mg/m<sup>3</sup> 1 minutes. PEAK: 20 ppm 1 minutes. TWA: 10 ppm 8 hours.

Triethylamine Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).

Absorbed through skin.

STEL: 12.6 mg/m³ 15 minutes. STEL: 3 ppm 15 minutes. TWA: 8.4 mg/m³ 8 hours. TWA: 2 ppm 8 hours.

2-Butoxyethanol Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).

Absorbed through skin.

STEL: 246 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 100 mg/m³ 8 hours. TWA: 20 ppm 8 hours.

Acrylic acid Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).

TWA: 5.9 mg/m<sup>3</sup> 8 hours. TWA: 2 ppm 8 hours.

Triethylamine NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU

derived Occupational Exposure Limit Values

OELV-8hr: 2 ppm 8 hours. OELV-8hr: 8.4 mg/m³ 8 hours. OELV-15min: 3 ppm 15 minutes. OELV-15min: 12.6 mg/m³ 15 minutes.

2-Butoxyethanol NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU

derived Occupational Exposure Limit Values

OELV-8hr: 20 ppm 8 hours. OELV-8hr: 98 mg/m³ 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 246 mg/m³ 15 minutes.

Acrylic acid NAOSH (Ireland, 5/2021). Notes: EU derived Occupational

Exposure Limit Values
OELV-8hr: 10 ppm 8 hours.
OELV-8hr: 29 mg/m³ 8 hours.
OELV-15min: 59 mg/m³ 1 minutes.
OELV-15min: 20 ppm 1 minutes.

Triethylamine Legislative Decree No. 819/2008. Title IX. Protection from

chemical agents, carcinogens and mutagens (Italy, 6/2020).

Absorbed through skin. 8 hours: 2 ppm 8 hours.

8 hours: 8.4 mg/m³ 8 hours. Short Term: 3 ppm 15 minutes. Short Term: 12.6 mg/m³ 15 minutes.

2-Butoxyethanol Legislative Decree No. 819/2008. Title IX. Protection from

chemical agents, carcinogens and mutagens (Italy, 6/2020).

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Absorbed through skin. 8 hours: 20 ppm 8 hours. 8 hours: 98 mg/m³ 8 hours.

Short Term: 50 ppm 15 minutes.
Short Term: 246 mg/m³ 15 minutes.

Acrylic acid Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020).

Absorbed through skin.

Short Term: 20 ppm 1 minutes. Short Term: 59 mg/m³ 1 minutes.

8 hours: 10 ppm 8 hours. 8 hours: 29 mg/m³ 8 hours.

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Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Triethylamine STEL: 3 ppm 15 minutes. TWA: 8.4 mg/m<sup>3</sup> 8 hours. STEL: 12.6 mg/m<sup>3</sup> 15 minutes. TWA: 2 ppm 8 hours. 2-Butoxyethanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 98 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m<sup>3</sup> 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Acrylic acid TWA: 5 mg/m<sup>3</sup> 8 hours. STEL: 20 ppm 1 minutes. STEL: 59 mg/m<sup>3</sup> 1 minutes. TWA: 1.7 ppm 8 hours. Triethylamine Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 8.4 mg/m<sup>3</sup> 8 hours. TWA: 2 ppm 8 hours. STEL: 12.6 mg/m<sup>3</sup> 15 minutes. STEL: 3 ppm 15 minutes. 2-Butoxyethanol Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 50 mg/m3 8 hours. TWA: 10 ppm 8 hours. STEL: 100 mg/m<sup>3</sup> 15 minutes. STEL: 20 ppm 15 minutes. propylidynetrimethanol Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). CEIL: 5 ppm Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Acrylic acid TWA: 29 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. CEIL: 59 mg/m<sup>3</sup> CEIL: 20 ppm Grand-Duchy Regulation 2016. Chemical agents. Annex I Triethylamine (Luxembourg, 3/2021). Absorbed through skin. TWA: 2 ppm 8 hours. TWA: 8.4 mg/m<sup>3</sup> 8 hours. STEL: 3 ppm 15 minutes. STEL: 12.6 mg/m<sup>3</sup> 15 minutes. 2-Butoxyethanol Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m<sup>3</sup> 15 minutes. Acrylic acid Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). STEL: 20 ppm 1 minutes. STEL: 59 mg/m<sup>3</sup> 1 minutes. TWA: 10 ppm 8 hours. TWA: 29 mg/m<sup>3</sup> 8 hours. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list Triethylamine of indicative occupational exposure limit values TWA: 2 ppm 8 hours. TWA: 8.4 mg/m<sup>3</sup> 8 hours. STEL: 3 ppm 15 minutes.

STEL: 12.6 mg/m<sup>3</sup> 15 minutes.

2-Butoxyethanol EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list

of indicative occupational exposure limit values

TWA: 20 ppm 8 hours. TWA: 98 mg/m<sup>3</sup> 8 hours.

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2-Butoxyethanol

STEL: 50 ppm 15 minutes. STEL: 246 mg/m³ 15 minutes.

Acrylic acid EU OEL (Europe, 1/2022). Notes: list of indicative

occupational exposure limit values

STEL: 20 ppm 15 minutes. STEL: 59 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. TWA: 29 mg/m³ 8 hours.

Triethylamine Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 12/2022). Absorbed through skin.

OEL, 8-h TWA: 4.2 mg/m³ 8 hours. STEL,15-min: 12.6 mg/m³ 15 minutes. STEL,15-min: 3 ppm 15 minutes. OEL, 8-h TWA: 1 ppm 8 hours.

Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin.

OEL, 8-h TWA: 100 mg/m³ 8 hours. STEL,15-min: 246 mg/m³ 15 minutes. OEL, 8-h TWA: 20.4 ppm 8 hours. STEL,15-min: 50 ppm 15 minutes.

Acrylic acid Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 12/2022).

STEL,15-min: 59 mg/m³ 1 minutes. OEL, 8-h TWA: 29 mg/m³ 8 hours. OEL, 8-h TWA: 10 ppm 8 hours. STEL,15-min: 20 ppm 1 minutes.

Triethylamine FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through

skin. Notes: indicative limit value

TWA: 2 ppm 8 hours. TWA: 8 mg/m<sup>3</sup> 8 hours.

2-Butoxyethanol FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through

skin. Notes: indicative limit value

TWA: 10 ppm 8 hours. TWA: 50 mg/m<sup>3</sup> 8 hours.

Acrylic acid FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.

Notes: indicative limit value TWA: 10 ppm 8 hours. TWA: 29 mg/m³ 8 hours.

FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.

STEL: 59 mg/m³ 15 minutes. STEL: 20 ppm 15 minutes.

Triethylamine

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the

work environment (Journal of Laws 2021, item 325) (Poland,

2/2021). Absorbed through skin.

TWA: 3 mg/m³ 8 hours. STEL: 9 mg/m³ 15 minutes.

2-Butoxyethanol Regulation of the Minister of Family, Labor and Social Policy

of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland,

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2/2021). Absorbed through skin.

TWA: 98 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes.

Acrylic acid

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland,

2/2021). Absorbed through skin.

TWA: 10 mg/m³ 8 hours. STEL: 29.5 mg/m³ 15 minutes.

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Portuguese Institute of Quality (Portugal, 11/2014). Absorbed Triethylamine through skin. TWA: 1 ppm 8 hours. STEL: 3 ppm 15 minutes. 2-Butoxyethanol Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours. Acrylic acid Portuguese Institute of Quality (Portugal, 11/2014). Absorbed through skin. TWA: 2 ppm 8 hours. HG 1218/2006, Annex 1, with subsequent modifications and Triethylamine additions (Romania, 3/2021). Absorbed through skin. VLA: 8.4 mg/m<sup>3</sup> 8 hours. VLA: 2 ppm 8 hours. Short term: 12.6 mg/m³ 15 minutes. Short term: 3 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and 2-Butoxyethanol additions (Romania, 3/2021). Absorbed through skin. VLA: 98 mg/m<sup>3</sup> 8 hours. VLA: 20 ppm 8 hours. Short term: 246 mg/m<sup>3</sup> 15 minutes. Short term: 50 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and Acrylic acid additions (Romania, 3/2021). VLA: 29 ma/m<sup>3</sup> 8 hours. VLA: 10 ppm 8 hours. Short term: 59 mg/m<sup>3</sup> 1 minutes. Short term: 20 ppm 1 minutes. Triethylamine Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 8.4 mg/m<sup>3</sup> 8 hours. TWA: 2 ppm 8 hours. STEL: 12.6 mg/m³ 15 minutes. STEL: 3 ppm 15 minutes. 2-Butoxyethanol Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 98 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 246 mg/m<sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes. Acrylic acid Government regulation SR c. 355/2006 (Slovakia, 9/2020). STEL: 59 mg/m<sup>3</sup> 1 minutes. STEL: 20 ppm 1 minutes. TWA: 29 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. Triethylamine Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 8.4 mg/m<sup>3</sup> 8 hours. TWA: 2 ppm 8 hours. KTV: 12.6 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 3 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to 2-Butoxyethanol exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 98 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.

KTV: 246 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes.

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin.

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KTV: 20 ppm, 4 times per shift, 1 minutes.

TWA: 10 ppm 8 hours.

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Acrylic acid

KTV: 59 mg/m<sup>3</sup>, 4 times per shift, 1 minutes.

TWA: 29 mg/m<sup>3</sup> 8 hours.

Triethylamine National institute of occupational safety and health (Spain,

4/2022). Absorbed through skin.

TWA: 2 ppm 8 hours. TWA: 8.4 mg/m³ 8 hours. STEL: 3 ppm 15 minutes. STEL: 12.6 mg/m³ 15 minutes.

2-Butoxyethanol National institute of occupational safety and health (Spain,

4/2022). Absorbed through skin.

TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 245 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.

Acrylic acid National institute of occupational safety and health (Spain,

4/2022). Absorbed through skin.

TWA: 10 ppm 8 hours. TWA: 29 mg/m³ 8 hours. STEL: 59 mg/m³ 15 minutes. STEL: 20 ppm 15 minutes.

No exposure limit value known.

Triethylamine SUVA (Switzerland, 1/2023).

TWA: 1 ppm 8 hours. TWA: 4.2 mg/m³ 8 hours. STEL: 2 ppm 15 minutes. STEL: 8.4 mg/m³ 15 minutes.

2-Butoxyethanol SUVA (Switzerland, 1/2023). Absorbed through skin.

TWA: 10 ppm 8 hours. TWA: 49 mg/m³ 8 hours. STEL: 20 ppm 15 minutes. STEL: 98 mg/m³ 15 minutes.

Acrylic acid SUVA (Switzerland, 1/2023). Skin sensitiser.

TWA: 10 ppm 8 hours. TWA: 29 mg/m³ 8 hours. STEL: 20 ppm 15 minutes. STEL: 59 mg/m³ 15 minutes.

reaction mass of: 5-chloro-2-methyl- SUVA (Switzerland, 1/2023). Skin sensitiser.

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

STEL: 0.4 mg/m³ 15 minutes. Form: Inhalable fraction TWA: 0.2 mg/m³ 8 hours. Form: Inhalable fraction

Triethylamine EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.

STEL: 17 mg/m³ 15 minutes. TWA: 2 ppm 8 hours. TWA: 8 mg/m³ 8 hours. STEL: 4 ppm 15 minutes.

2-Butoxyethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. STEL: 246 mg/m³ 15 minutes. TWA: 123 mg/m³ 8 hours.

Acrylic acid EH40/2005 WELs (United Kingdom (UK), 1/2020).

STEL: 59 mg/m³ 1 minutes. STEL: 20 ppm 1 minutes. TWA: 29 mg/m³ 8 hours. TWA: 10 ppm 8 hours.

2-(2-butoxyethoxy)ethanol EH40/2005 WELs (United Kingdom (UK), 1/2020).

TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours.

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STEL: 101.2 mg/m³ 15 minutes.

EH40/2005 WELs (United Kingdom (UK), 1/2020).

STEL: 2.5 mg/m³ 15 minutes.

STEL: 2 ppm 15 minutes.

TWA: 2 ppm 8 hours.

TWA: 2.5 mg/m³ 8 hours.

## **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	
2-Butoxyethanol	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)  Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.  Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
2-Butoxyethanol	DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).  BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.  TRGS 903 - BEI Values (Germany, 2/2022)  BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
2-Butoxyethanol	NAOSH (Ireland, 1/2011)  BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
No exposure indices known.	
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.

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No exposure indices known.

No exposure indices known.

2-Butoxyethanol

2-Butoxyethanol

No exposure indices known.

2-Butoxyethanol

2-Butoxyethanol

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)

BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.

National institute of occupational safety and health (Spain, 4/2022)

VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling time: end of shift.

SUVA (Switzerland, 1/2023)

BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) fin urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

EH40/2005 BMGVs (United Kingdom (UK), 8/2018)

BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.

#### **Recommended monitoring** procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.87 mg/m <sup>3</sup>		Systemic
	DNEL	Long term Dermal	1.4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	4.93 mg/m <sup>3</sup>	Workers	Systemic
Benzophenon	DNEL	Long term Oral	0.05 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.05 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.17 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	0.7 mg/m <sup>3</sup>	Workers	Systemic
2,2-bis(acryloyloxymethyl)butyl acrylate	DNEL	Long term Inhalation	17.1 mg/m³	Workers	Systemic
,	DNEL	Long term Dermal	404 mg/kg bw/day	Workers	Systemic
Triethylamine	DNEL	Long term Inhalation	8.4 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term	8.4 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	12.1 mg/	Workers	Systemic

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DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Oral DNEL S
Inhalation   Short term   Inhalation   DNEL   Long term Oral   DNEL   Long term   Inhalation   DNEL   Long term   DNEL   Short term   Inhalation   DNEL   Short term   Systemic   System
2-Butoxyethanol  DNEL   Short term   Inhalation   DNEL   Long term Oral   Short term Oral   DNEL   Short term Oral   Short term Oral   DNEL   Long term   Short term Oral   Short term Oral   Short term Oral   Short term Oral   Short term   Systemic   Sys
2-Butoxyethanol  DNEL Long term Oral bw/day bw/day 26.7 mg/ kg bw/day population Qeneral population General population General population DNEL Long term 59 mg/m³ General population Workers Systemic DNEL Short term 147 mg/m³ General population Workers Local population DNEL Short term 246 mg/m³ General population Workers Local Inhalation DNEL Short term 426 mg/m³ General population Workers Systemic population DNEL Short term 1091 mg/ Inhalation DNEL Short term 1091 mg/ m³ General population Workers Systemic population Workers Systemic population Workers Systemic population General population General population Systemic population General population General Systemic population General population Systemic population General population General population Systemic population General population Systemic population General population General population Systemic population General population Systemic population General population General population Systemic population General population General population General population General population Systemic population General population Systemic population General population General population Systemic Market Population General population G
2-Butoxyethanol  DNEL   Long term Oral   Short term   Short t
DNEL Short term Oral Short day 26.7 mg/ kg bw/day 26.7 mg/ kg bw/day 59 mg/m³ General population General population General population General population Systemic population Workers Systemic population Workers Systemic population Workers Systemic population Workers Systemic Inhalation DNEL Short term 147 mg/m³ General population Workers Local population Workers Local population Workers Local population Workers Systemic Inhalation DNEL Short term 426 mg/m³ General population Workers Systemic Inhalation DNEL Short term 1091 mg/ Inhalation DNEL Cong term Oral DNEL Cong term Oral DNEL Cong term Dermal DNEL Cong term Dermal DNEL Systemic Systemic Systemic Systemic General population Systemic Systemic Systemic Systemic General population Systemic
DNEL Short term Oral 26.7 mg/ kg bw/day 59 mg/m³ General population General population Systemic population DNEL Long term Inhalation DNEL Short term Inhalat
DNEL Long term Inhalation DNEL Short term Inhala
DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Oral DNEL Long term Dermal
Inhalation   DNEL   Long term   147 mg/m³   General   population   DNEL   Local   DNEL   Short term   147 mg/m³   General   population   Workers   Local   DNEL   Short term   246 mg/m³   Workers   Local   DNEL   Short term   Local   DNEL   DNEL   Short term   Local   DNEL   Short term   Local   DNEL   Short term   Local   DNEL   DNEL   DNEL   DNEL   Long term Oral   DNEL   DNEL   DNEL   Long term Dermal   DNEL   Long term Dermal   DNEL   Long term Dermal   DNEL   D
Inhalation DNEL Short term
DNEL Short term Inhalation DNEL Short term 246 mg/m³ General population DNEL Short term 246 mg/m³ Workers  DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term 1091 mg/ population DNEL Short term 1091 mg/ Workers  DNEL Long term Oral 0.34 mg/ kg bw/day DNEL Long term Dermal 0.34 mg/ kg bw/day DNEL Long term Dermal 0.34 mg/ general population Systemic Systemic Systemic population ONEL Short term 1091 mg/ Rg bw/day DNEL Long term Dermal 0.34 mg/ Rg bw/day DNEL Long term Dermal Dermal Deputation DNEL Short term 1091 mg/ Rg bw/day DNEL Long term Dermal Dermal Deputation DNEL Systemic Systemic Systemic Systemic Population
Inhalation DNEL Short term Inhalation DNEL Long term Oral DNEL Long term Dermal
DNEL Short term Inhalation DNEL Short term 426 mg/m³ General population DNEL Short term 1091 mg/ Inhalation DNEL Short term 1091 mg/ Inhalation DNEL Long term Oral 0.34 mg/ kg bw/day DNEL Long term Dermal No.34 mg/ kg bw/day population DNEL Long term Dermal No.34 mg/ kg bw/day population DNEL Long term Dermal No.34 mg/ kg bw/day population DNEL Long term Dermal No.34 mg/ kg bw/day population
DNEL Short term Inhalation DNEL Long term Oral DNEL Long term Dermal
DNEL Short term Inhalation DNEL Long term Oral DNEL Long term Dermal
propylidynetrimethanol  DNEL DNEL DNEL DNEL Long term Dermal Nation DNEL DNEL Long term Dermal Nation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL
propylidynetrimethanol  DNEL Short term Inhalation Inhalation  DNEL Long term Oral  DNEL Long term Dermal
propylidynetrimethanol  DNEL   Long term Oral   DNEL   Long term Dermal   DNEL   DNEL
propylidynetrimethanol  DNEL Long term Oral  DNEL Long term Oral  Systemic  population  O.34 mg/  kg bw/day  O.34 mg/  General  Systemic  Systemic  Systemic  population
DNEL Long term Dermal kg bw/day population Systemic kg bw/day population
DNEL Long term Dermal 0.34 mg/ General Systemic kg bw/day population
kg bw/day   population
DNEL Long term 0.58 mg/m³ General Systemic
Inhalation population
DNEL Long term Dermal 0.94 mg/ Workers Systemic
kg bw/day
DNEL Long term 3.3 mg/m³ Workers Systemic
Acrylic acid DNEL Long term Oral 0.4 mg/kg General Systemic
bw/day population
DNEL Short term Oral 1.2 mg/kg General Systemic
bw/day population
DNEL Short term 3.6 mg/m³ General Systemic
Inhalation population
DNEL Long term 3.6 mg/m³ General Systemic
Inhalation population
DNEL Short term 30 mg/m³ Workers Local
Inhalation
DNEL Long term 30 mg/m³ Workers Local
Inhalation  DNEL Short term  30 mg/m³ Workers  Systemic
DNEL Short term 30 mg/m³ Workers Systemic Inhalation
DNEL Long term 30 mg/m³ Workers Systemic
Inhalation
DNEL Short term Dermal   1 mg/cm²   General   Local
population
DNEL Short term 3.6 mg/m³ General Local
Inhalation population
DNEL Long term 3.6 mg/m³ General Local
Inhalation population
2-methyl-2H-isothiazol-3-one DNEL Long term 0.021 mg/ General Local Inhalation m³ population
DNEL Long term 0.021 mg/ Workers Local
Inhalation m <sup>3</sup>
DNEL Long term Oral 0.027 mg/ General Systemic
kg bw/day population
DNEL Short term 0.043 mg/ General Local
Inhalation m³ population
DNEL Short term 0.043 mg/ Workers Local
Inhalation m <sup>3</sup>
DNEL Short term Oral 0.053 mg/ General Systemic
reaction mass of: 5-chloro-2-methyl- DNEL Long term kg bw/day population coal
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4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)		Inhalation		population	
(0.1)	DNEL	Long term	0.02 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	0.04 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	0.04 mg/m <sup>3</sup>		Local
	DNEL	Long term Oral	0.09 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.11 mg/ kg bw/day	General population	Systemic

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

## **Skin protection Hand protection**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Recommendations: Wear suitable gloves tested to EN374.

< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm

> 8 hours (breakthrough time): 4H / Silver Shield® gloves.

Wash hands before breaks and immediately after handling the product.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Filter type (spray application):

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**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid.

Colour Grevish-white.

Odour Slight

**Odour threshold** : Not available. Melting point/freezing point : Not available.

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
water	100	212	
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	257.4	495.3	

**Flammability** : Not available.

Lower and upper explosion

limit

: Lower: Not applicable. Upper: Not applicable.

Flash point : Closed cup: >100°C (>212°F)

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
2,2-bis(acryloyloxymethyl)butyl acrylate	385	725	EU A.15
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	423	793.4	DIN EN 14522

**Decomposition temperature** : Not available. 7.6 to 8.6 pН **Viscosity** Not available.

Solubility(ies)

Not available.

Solubility in water : Not available. Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
Benzophenon	0.003	0.0004				

**Relative density** : Not available. Density : 1.2 g/cm<sup>3</sup> Vapour density Not available. **Explosive properties** : Not available. **Oxidising properties** : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

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## **SECTION 10: Stability and reactivity**

10.1 Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability :

: The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Benzophenon	LD50 Dermal	Rabbit	3535 mg/kg	-
	LD50 Oral	Rat	>10 g/kg	-
2,2-bis(acryloyloxymethyl)	LD50 Dermal	Rabbit	5170 mg/kg	-
butyl acrylate				
Triethylamine	LD50 Oral	Rat	460 mg/kg	-
propylidynetrimethanol	LD50 Oral	Rat	14000 mg/kg	-
Acrylic acid	LD50 Dermal	Rabbit	640 mg/kg	-
	LD50 Oral	Rat	33500 µg/kg	-
2-methyl-2H-isothiazol-	LC50 Inhalation Dusts and	Rat	0.11 mg/l	4 hours
3-one	mists			
reaction mass of: 5-chloro-	LD50 Oral	Rat	53 mg/kg	-
2-methyl-4-isothiazolin-				
3-one [EC no. 247-500-7]				
and 2-methyl-2H-isothiazol-				
3-one [EC no. 220-239-6] (3:				
1)				

#### Conclusion/Summary

: Based on available data, the classification criteria are not met.

#### **Acute toxicity estimates**

Route	ATE value
	33826.74 mg/kg 169.13 mg/l

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug I	
2,2-bis(acryloyloxymethyl) butyl acrylate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Triethylamine	Skin - Mild irritant	Rabbit	-	365 mg	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Acrylic acid	Eyes - Severe irritant	Rabbit	-	1 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
				ug	
	Skin - Severe irritant	Rabbit	-	24 hours 5	-
				mg	

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## **SECTION 11: Toxicological information**

	Skin - Severe irritant	Rabbit	-	500 mg	-
reaction mass of: 5-chloro-	Skin - Severe irritant	Human	-	0.01 %	-
2-methyl-4-isothiazolin-					
3-one [EC no. 247-500-7]					
and 2-methyl-2H-isothiazol-					
3-one [EC no. 220-239-6] (3:					
1)					

**Conclusion/Summary** 

: Based on available data, the classification criteria are not met.

**Sensitisation** 

**Conclusion/Summary** : May cause an allergic skin reaction.

**Mutagenicity** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Carcinogenicity** 

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

**Conclusion/Summary** : May cause cancer. Risk of cancer depends on duration and level of exposure.

Reproductive toxicity

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Teratogenicity** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Triethylamine	Category 3	-	Respiratory tract irritation
Acrylic acid	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Benzophenon	Category 2	-	-

#### **Aspiration hazard**

Not available.

Information on likely routes : Not available.

of exposure

Potential acute health effects

**Eye contact** : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

**Skin contact** : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data. Inhalation : No specific data.

**Skin contact** : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure **Short term exposure**

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## **SECTION 11: Toxicological information**

**Potential immediate** 

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

: Once sensitized, a severe allergic reaction may occur when subsequently exposed **General** 

to very low levels.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards. Reproductive toxicity : No known significant effects or critical hazards.

#### 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Benzophenon	Acute LC50 10.89 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - LARVAE	96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 800000 μg/l Marine water	Crustaceans - Crangon crangon	48 hours
propydidy matrimath and	, ,	Fish - Menidia beryllina	96 hours
propylidynetrimethanol	Acute EC50 13000000 μg/l Fresh water Acute LC50 14400000 μg/l Marine	Daphnia - <i>Daphnia magna</i> Fish - <i>Cyprinodon variegatus</i>	48 hours 96 hours
	water	Fish - Cyprillodoli vallegalus	90 Hours
Acrylic acid	Chronic NOEC 3.8 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 0.07 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

**Conclusion/Summary** : Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

**Conclusion/Summary** : This product has not been tested for biodegradation.

#### 12.3 Bioaccumulative potential

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## **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
Benzophenon	3.18	12.02	Low
2,2-bis(acryloyloxymethyl)	0.67	-	Low
butyl acrylate			
Triethylamine	1.45	<0.5	Low
2-Butoxyethanol	0.81	-	Low
propylidynetrimethanol	-0.47	<1	Low
Acrylic acid	0.38	3.162	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

#### **Hazardous waste**

European waste catalogue (EWC)

: The classification of the product may meet the criteria for a hazardous waste.

## Packaging (

**Methods of disposal** 

: 080111\*

# : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

#### **Special precautions**

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	-	-

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#### **SECTION 14: Transport information** 14.3 Transport hazard class(es) 14.4 Packing group No. 14.5 No. Yes. No. **Environmental** hazards

#### **Additional information**

**ADN** 

: The product is only regulated as a dangerous good when transported in tank

**IATA** 

The environmentally hazardous substance mark may appear if required by other

transportation regulations.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO

: Not relevant/applicable due to nature of the product.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

**Annex XIV** 

instruments

None of the components are listed.

Substances of very high concern

None of the components are listed.

#### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
TEKNOLUX AQUA 1728-53	≥90	3 28
Benzophenon	≤3	28

Labelling : Restricted to professional users.

Other EU regulations

**Industrial emissions** (integrated pollution : Not listed

prevention and control) -

Air

**Industrial emissions** 

: Not listed

(integrated pollution prevention and control) -

Water

**Explosive precursors** : Not applicable. Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

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## **SECTION 15: Regulatory information**

#### **Persistent Organic Pollutants**

Not listed.

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

#### **National regulations**

**Austria** 

VbF class : Not regulated.

Limitation of the use of : Permitted.

organic solvents

**Czech Republic** 

Storage code : IV

**Denmark** 

Danish fire class : IV-1 Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
titanium dioxide	Listed	-
benzophenone	-	Carc. 1B, H350
2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	-	Carc. 2, H351

MAL-code

: 00-1

#### **Protection based on MAL**

According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

**General:** Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-1

**Application:** When spraying in existing\* spray booths, if the operator is outside the spray zone.

- Arm protectors must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Full mask with combined filter, coveralls and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

**Caution** The regulations contain other stipulations in addition to the above.

\*See Regulations.

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## **SECTION 15: Regulatory information**

Restrictions on use

: Not to be used by professional users below 18 years of age. See the National

Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable

substances

: Not listed

Carcinogenic waste

: Waste containers must be labeled: Contains a substance or substances regulated

by Danish working environment legislation on cancer risks.

**Finland France** 

Social Security Code, Articles L 461-1 to L 461-7

: Triethylamine 2-Butoxyethanol RG 49. RG 49bis

**RG 84** 

**Reinforced medical** 

surveillance

: Act of July 11, 1977 determining the list of activities which require reinforced

medical surveillance: not applicable

Germany

Storage class (TRGS 510) : 6.1C **Hazardous incident ordinance** 

This product is not controlled under the Germany Hazardous Incident Ordinance.

: 1

**Hazard class for water** 

**Technical instruction on** 

: TA-Luft Number 5.2.5: 4.5%

air quality control

TA-Luft Class I - Number 5.2.5: 2.3%

**AOX** : The product contains organically bound halogens and can contribute to the AOX

value in waste water.

Italy

D.Lqs. 152/06 : Not determined.

**Netherlands** 

Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances

Ingredient name	Carcinogen		•		Harmful via breastfeeding
benzofenon	Listed	-	-	-	-

**Water Discharge Policy** 

(ABM)

Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

**Norway Sweden** 

**Switzerland** 

**VOC** content : Exempt.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

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## **SECTION 15: Regulatory information**

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** 

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Carc. 1B, H350	Calculation method Calculation method Calculation method

#### Full text of abbreviated H statements

rn child.
osure.

#### Full text of classifications [CLP/GHS]

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Carc. 1B	CARCINOGENICITY - Category 1B
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2

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#### **SECTION 16: Other information**

Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 Repr. 2 REPRODUCTIVE TOXICITY - Category 2 Skin Corr. 1A SKIN CORROSION/IRRITATION - Category 1A Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B Skin Corr. 1C SKIN CORROSION/IRRITATION - Category 1C Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1 SKIN SENSITISATION - Category 1 Skin Sens. 1A SKIN SENSITISATION - Category 1A SKIN SENSITISATION - Category 1B Skin Sens. 1B STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 STOT SE 3

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#### **Notice to reader**

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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